

USER'S MANUAL

P07305 Stand Alone LCD Pole Display

48200560
(January 2002,V1.0)

IMPORTANT NOTICE

FCC Notice

Federal Communications Commission (FCC) Radio Frequency Interference Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions; (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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NOTICE

The contents of this manual are subject to change without notice.

Stand Alone LCD Pole Display
Copyright of Manufacture
Part NO. 48200550
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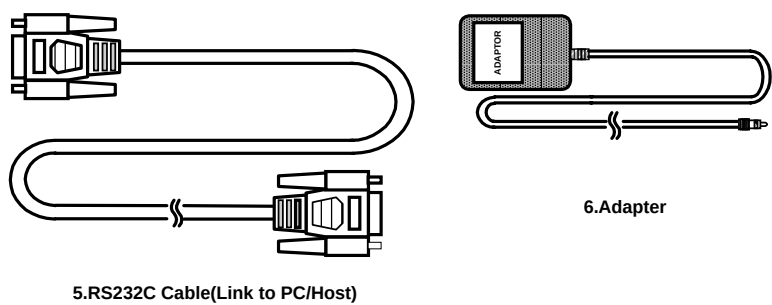
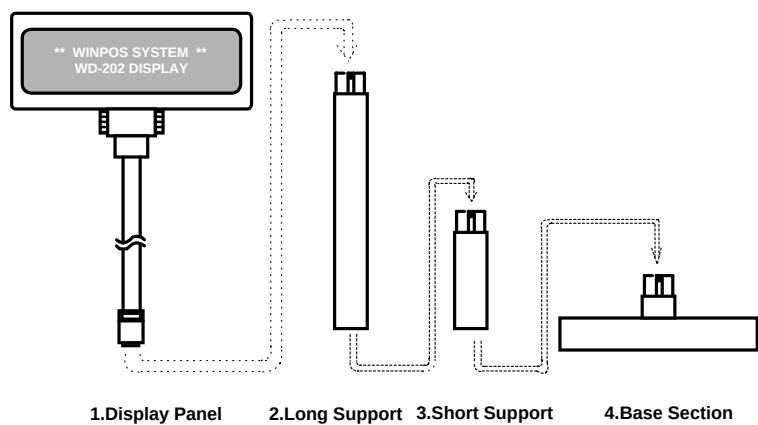
1. Features

- 1.) Data can be displayed on 30 columns x 4 lines (or double high is 2 lines) by 8x16 dot matrix alphanumeric or 15 columns x 4 lines (or double high is 2 lines) by Chinese character.
- 2.) Blue-white color and no filter are easy to eyes.
- 3.) The display panel is adjustable to provide the best view angle.
- 4.) Provide 2 pole for best position installation.
- 5.) Provide String mode command sets.
- 6.) Provides an interface based on RS-232C, and RS232C baud rate fixed 9600 bps. .

2. General Specification

NO	ITEM		Descriptions
1	Display method		Liquid crystal display
2	LCD type		STN Blue mode
3	Backlight mode		CCFL backlight
4	Brightness		100 cd/m ²
5	Display color		Blue (back color) and White (character color)
6	Number of character		30 columns x 4 lines (or double high is 2 lines) alphanumeric 15 columns x 4 lines (or double high is 2 lines) Chinese character
7	Character font		8 x 16 Dot matrix by alphanumeric 16 x 16 dot-matrix by Chinese character
8	Character type	Traditional Chinese	96 alphanumeric 13000 Chinese character by Big 5 code
		Simplified Chinese	96 alphanumeric 8000 Chinese character by GB code
		Japanese	96 alphanumeric 7000 Japanese character
		Korean	96 alphanumeric 8000 Korea character
9	Character size		8.47mm x 4.24mm(16x8 dot matrix) 8.47mm x 8.47mm(16x16 dot matrix) 16.94mm x 8.47mm(32x16 dot matrix)
10	Power supply		9-33 VDC
11	Power consumption		3 - 6 W (Standby : 1 W)
12	MTBF		15000-20000 hours (life time)
13	Panel dimensions		224 (W) x 93 (H) x 50(D) mm
14	Support dimensions		Long support : 22cm Short support : 9cm
15	Base dimensions		190(w)x55(h)x96(d)mm
16	Viewing angle		0 – 45 degrees
17	Rotation angle		Maximum 270 degrees
18	Weight		1.25 Kg
19	Operating temperature		0 – 50°C
20	Operating Humidity		30%-85%
21	Storage Temperature		-20 - 55°C
22	Storage Humidity		10%-85%

3. Unpacking and checking the parts



Notes: Make sure no parts are missing or damaged.

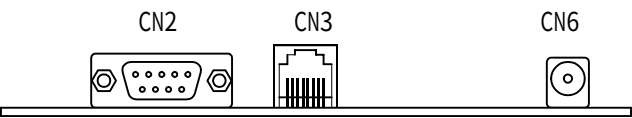
4. Interface

4.1 Specifications

Data transmission:	Serial
Synchronization:	Asynchronous
Handshaking:	DTR / DSR
Signal level:	MARK = -3 to -15 V (logic "1") SPACE = +3 to +15 V (logic "0")
Baud rates:	9600 bps
Parity:	None
Bit length:	8 bits
Stop bits:	1 or more

4.2 Interface connector (On the bottom of the base section)

●Interface connector on the bottom of Pole Display Base (standard)



CN2: RS-232C connects to PC/Host

CN3: Connect to display panel

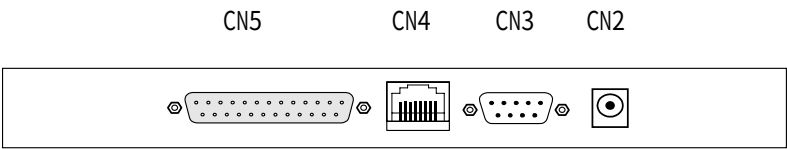
CN6: Power supply connector

CN1,CN4, CN5: No used

Power Supply Connectors

CN6 / Connector type: DC jack (5.5/2.1)

Interface connector on the bottom of Pole Display Base (option)



CN2:Power input connector from adapter

CN3: RS-232C connect to printer (reserved)

CN4: Connect to display panel

CN5: RS-232C connect to PC/Host

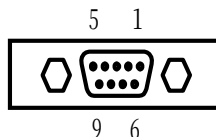
4.3 Power Supply Connectors

CN6 / Connector type: DC jack (5.5/2.1)



4.4 RS232C link to PC/HOST connector

CN2 / Connector type: D-sub 9 pin female

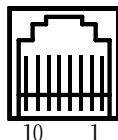


Pin assignment

No	Signal	Direction	Function description
2	RXD	From PC/Host to display	Receive data
3	TXD	-	-
4	DSR	-	-
5	GND	-	Signal ground
6,8	DTR	From display to PC/Host-	Display ready Signal

4.5 RS232C link to display panel

CN3 / Connector type: Phone-jack 10P/8C



Pin assignment

No	Signal	Direction	Function description
1	NC	-	Not connect
2,3	V+	-	Power input (9 – 33 Vdc)
4,5	GND	-	Signal ground
6	DSR	To display panel	PC/Host ready signal
7	DTR	From display panel	Printer ready signal
8	RXD	To display panel	Send data to display
9	TXD	From display panel	No use
10	NC	-	Not connect

5. Command List

COMMAND

[Name]	Command name.
[Format]	<>H indicates hexadecimal, <> indicates decimal, []k indicates k times repeat to control code and frequency.
[Range]	Gives the allowable range for set argument and data.
[Description]	Explain command function.
[Complement]	Complement particular.
[Note]	Gives important information on the setting and used of printer command, if necessary.

Command	Code	Name and description
US	<1F>H	Clear display
ESC q A	<1B>H<71>H/<41>H"d1 – d30" 0D	Show string data "d1 – d30" to display line 1.
ESC q B	<1B>H<71>H/<42>H"d1 – d30" 0D	Show string data "d1 – d30" to display line 2.
ESC q C	<1B>H<71>H/<43>H"d1 – d30" 0D	Show string data "d1 – d30" to display line 3.
ESC q D	<1B>H<71>H/<44>H"d1 – d30" 0D	Show string data "d1 – d30" to display line 4.
ESC q E	<1B>H<71>H/<45>H"d1 – d30" 0D	Show double-height string data "d1 – d30" to display line 1 and line 2.
ESC q F	<1B>H<71>H/<46>H"d1 – d30" 0D	Show double-height string data "d1 – d30" to display line 3 and line 4.
S0	<0E>H	Set double-width character mode, This code must be inside string data "d1 – d30".
DC4	<14>H	Cancel double-width character mode, This code must be inside string data "d1 – d30".

Appendix A. Character code tables

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0
0	NUL	DLE	SP	0	@	P	`	p	TWO BYTES CODE SYSTEM CHARACTERS AREA							
1			!	1	A	Q	a	q								
2			"	2	B	R	b	r								
3			#	3	C	S	c	s								
4	EOT		\$	4	D	T	d	t								
5	ENQ		%	5	E	U	e	u								
6			&	6	F	V	f	v								
7			'	7	G	W	g	w								
8			(	8	H	X	h	x								
9	HT		)	9	I	Y	i	y								
A	LF		*	:	J	Z	j	z								
B		ESC	+	;	K	[	k	{								
C			,	<	L	\	l									
D	CR	GS	-	=	M	]	m	}								
E			.	>	N	^	n	~								
F		US	/	?	O	_	o	SP								

Appendix B: Customer Display Dimension

